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Espacenet Bibliographic data: JP 7501476 (T)

Medial region deployment of radially self-expanding stents

Publication date:

1995-02-16

Inventor(s):

Applicant(s):

- international:

A61F2/06; A61F2/82; A61F2/84; (IPC1-7): A61M29/02

Classification:

- European:

A61F2/84

Application number:

JP19930517431T 19930223

Priority number(s):

Also published as:

WO1993US01430 19930223; US19920863231 19920403

US 5201757 (A)

WO 9319703 (A1)

JP 2717026 (B2)

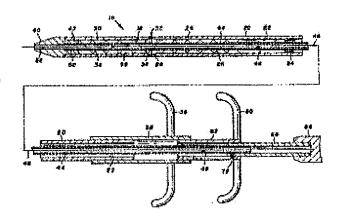
● EP 0633756 (A1)

EP 0633756 (B1)

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Abstract not available for JP 7501476 (T) Abstract of corresponding document: US 5201757 (A)

An apparatus for deploying a radially self-expanding stent includes proximal and distal sleeves respectively containing proximal and distal end portions of the stent in a reduced radius delivery configuration. The sleeves can abut one another and thus contain the entire length of the stent, or may be used in combination with an outer catheter surrounding the sleeves and containing the medial region of the stent. In either event, once the stent and sleeves are positioned at the intended fixation



site, the sleeves are moved axially with respect to one another to permit radial self-expansion of the stent only over its medial region, while the sleeves continue to contain the axially outward regions of the stent. Eventually, upon sufficient movement of the sleeves axially relative to one another, the stent becomes totally free of the sleeves, resulting in radial expansion over the another stone in axial relative individual to the sleeves axially relative individual movably.

with respect to one another, one catheter integral with each of the sleeves. Alternative arrangements for separating the sleeves include an externally threaded inner catheter, and a dilatation balloon or membrane expandable to force the sleeves apart from one another.